

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application.

1. (Currently Amended) Derivatives of natural, semisynthetic and synthetic lipids, the derivatives comprising oligomers of the lipids selected from ceramides and/or sphingosines, wherein, within the oligomeric lipid molecule, a cross-linkage of respectively two adjacent lipid monomers is effected strictly alternately in the “tail-to-tail” arrangement via their hydrophobic fatty acid radical directly or using an intradimeric spacer with a freely selectable molecule chain length and composition.
2. (Previously Presented) Derivatives of natural, semisynthetic and synthetic lipids according to claim 1, wherein the fatty acid component of the sphingosines and the fatty acid components of the ceramides comprise palmitic acid or another monocarboxylic acid with a chain length of between 10 and 40 C-atoms.
3. (Previously Presented) Derivatives of natural, semisynthetic and synthetic lipids according to claim 1, wherein the fatty acid components are selected from the group consisting of n-dodecanoic acid, n-tetradecanoic acid, n-octadecanoic acid, n-icosanoic acid, n-tetracosanoic acid, *cis*- Δ^9 -hexadecenoic acid, *cis*- Δ^9 -octadecenoic acid, *cis,cis*- Δ^9 - Δ^{12} -octadecadienoic acid, all-*cis*- Δ^9 , Δ^{12} , Δ^{15} -octadecatrienoic acid, α -hydroxytetracosanoic acid, decanoic acid, octacosanoic acid, and *cis*- Δ^9 -octacosanoic acid.
4. (Currently Amended) Derivatives of natural, semisynthetic and synthetic lipids according to claim 1, wherein, ~~within the oligomeric lipid molecule, the cross-linkage of respectively two adjacent lipid monomers is effected strictly alternately either in the “tail-to-tail” arrangement or in the “head-to-head” arrangement~~ the intradimeric spacer comprises at least one carbon atom and/or at least one heteroatom.
5. (Currently Amended) Derivatives of natural, semisynthetic and synthetic lipids according to claim 1, wherein two adjacent lipid molecules are bonded to each other in the “head-to-head” arrangement ~~respectively in the “tail-to-tail” arrangement~~ via their hydrophobic fatty acid radical structural component.

6. (Currently Amended) Derivatives of natural, semisynthetic and synthetic lipids according to claim 1, wherein two adjacent lipid molecules are bonded respectively in the ~~“tail-to-tail”~~ “head-to-head” arrangement via an ~~intradimeric~~ interdimeric spacer with a freely selectable molecule chain length and composition.

7. (Currently Amended) Derivatives of natural, semisynthetic and synthetic lipids according to ~~claim 6~~ claim 1, wherein the intradimeric spacer ~~comprises at least one carbon atom and/or at least one heteroatom~~ is predominantly hydrophilic.

8. (Currently Amended) Derivatives of natural, semisynthetic and synthetic lipids according to ~~claim 1~~ claim 6, wherein ~~two adjacent lipid molecules are bonded to each other in the “head-to-head” arrangement respectively via their hydrophilic structural component~~ the interdimeric spacer contains structural components selected from the group consisting of glycerine, amino acids, carbohydrate components, mevalonic acid, and pyrrolidone carboxylic acid.

9. (Currently Amended) Derivatives of natural, semisynthetic and synthetic lipids according to claim 1, wherein two adjacent lipid molecules are bonded respectively in the ~~“head-to-head”~~ “tail-to-tail” arrangement via ~~an interdimeric spacer with a freely selectable molecule chain length and composition~~ the ω -position carbon atom of the fatty acid chain, by a covalent bond.

10. (Currently Amended) ~~Derivatives of natural, semisynthetic and synthetic lipids according to claim 9, wherein the interdimeric spacer is predominantly hydrophilic~~ Pharmaceutical preparation containing lipids according to claim 1 as active substance.

11-16. (Canceled)